DYNAMIC LANGUAGE MODEL MIXTURES WITH HISTORY-BASED BUCKETS

Abstract

In an Automatic Speech Recognition (ASR) system having at least two language models, a method is provided for combining language model scores generated by at least two language models. A list of most likely words is generated for a current word in a word sequence uttered by a speaker, and acoustic scores corresponding to the most likely words are also generated. Language model scores are computed for each of the most likely words in the list, for each of the at least two language models. A set of coefficients to be used to combine the language model scores of each of the most likely words in the list is respectively and dynamically determined, based on a context of the current word. The language model scores of each of the most likely words in the list are respectively combined to obtain a composite score for each of the most likely words in the list, using the set of coefficients determined therefor.